

# Cypress™

## Cypress Tech Talk

September 24, 2019



**MITRE**

The Office of the National Coordinator for  
Health Information Technology



# Agenda

---

- Software Updates
  - Cypress 5.0.1 Patch Release
    - Measure Logic Highlighting
    - Status updates for long running uploads
    - C2 test returning “Internal Error” message
    - Patient Import Fails when missing Low value
  - Cypress 4.0.4 Patch Release
    - QRDA Import/Export updates
- Cypress Versions
- Open Discussion
- Contact Information

## Software Update

# Cypress 5 Releases

---

- Cypress 5.0.1 was released on Thursday, August 29<sup>th</sup>
  - <https://github.com/projectcypress/cypress/wiki/Cypress-5.x-Upgrade-Instructions>
- **Cypress Features**
  - Measure Logic Highlighting for vendor provided test patients.
  - Increased granularity of status message for bundle and vendor patient uploads.
- **Cypress Bugs Addressed**
  - Internal Error returned by Cypress instead of error message for incorrect population counts. ([CYPRESS-1785](#))
  - Patient Import Fails when missing Low value. ([CYPRESS-1785](#))

# Software Update

## Measure Logic Highlighting

- CVU+ is being updated to display eCQM calculation and Measure Logic Highlighting for uploaded developer-generated test patients

### Measure Information

	IPOP	DENOM	NUMER	DENEX	DENEXCEP
CMS2v9 - PopulationSet 1					

View Logic Highlighting

#### Populations

##### Initial Population

define "Initial Population":

"Patient Age 12 Years or Older at Start of Measurement Period"  
and exists ( "Qualifying Encounter for Depression Screening" )

##### Denominator

define "Denominator":

"Initial Population"

##### Denominator Exclusions

define "Denominator Exclusions":

"Has Diagnosis of Bipolar Starting Before Qualifying Encounter"  
or "Has Diagnosis of Depression Starting Before Qualifying  
Encounter"

##### Numerator

define "Numerator":

( "Patient Age 12 to 17 Years at Start of Measurement Period"  
and ( "Most Recent Adolescent Depression Screening  
Negative" is not null  
or "Follow up for Positive Adolescent Depression

#### QDM::Diagnosis

Depression diagnosis

##### Codes:

ICD10CM: F34.1

SNOMEDCT: 78667006

##### Time Elements:

Prevalence Period Start: 2017-05-31T08:30:00.000Z

##### Other Fields:

Depression diagnosis

##### Codes:

SNOMEDCT: 14183003

ICD10CM: F32.0

##### Time Elements:

Prevalence Period Start: 2018-02-26T08:00:00.000Z

##### Other Fields:

#### QDM::EncounterPerformed

BP Screening Encounter Codes

##### Codes:

CPT: 99205

##### Time Elements:

Relevant Period Start: 2017-05-31T08:00:00.000Z

Relevant Period End: 2017-05-31T09:00:00.000Z

##### Other Fields:

Length Of Stay: 0 d

BP Screening Encounter Codes

##### Codes:

## Software Update

# Status updates for long running uploads

- **Current the Bundle upload and Vendor Patient upload can take a long time**
  - Original status messages

### Current Vendor Uploads


File	Status	
0_Alexander_Mcgee.xml.zip	working 	Importing

- Updated status messages

### Current Bundle Import Jobs

File	Status	
bundle-2019.zip	working 	Calculating (3 of 59 measures complete)

### Current Vendor Uploads

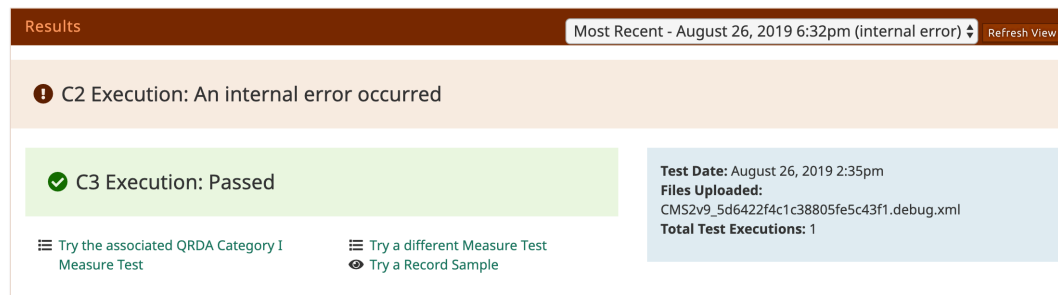
File	Status	
Archive.zip	working 	Calculating (18% complete)

## Software Updates

# Internal Error returned by Cypress instead of error message (CYPRESS-1785)

## ■ C2 test returning “Internal Error” message

- This error message is being returned when ‘expected’ population counts do not match ‘reported’ population counts



## ■ The error message should appear as below

- Will be fixed in 5.0.1 patch release

### Errors and Warnings

✖ CMS2v9\_5d6422f4c1c38805... 1 CMS2v9\_5d6422f4c1c38805fe5c43f1.debug.xml - 1 errors and warnings

View Uploaded XML with Errors

QRDA (0)

Reporting (1)

Submission (0)

CMS Warnings (0)

Other Warnings (0)

Expected IPP value 71 does not match reported value 70. The following errors were also identified for this population.

## Software Updates

# Patient Import Fails when missing Low value (CYPRESS-1785)

- Cypress Patient Import fails when an interval's low value is missing or unknown
  - Will be fixed in 5.0.1 patch release

Errors and Warnings

✖ 1\_Amanda\_Copeland.xml ⓘ 1\_Amanda\_Copeland.xml - 1 errors and warnings

[View Uploaded XML with Errors](#)

QRDA (0) **Reporting (1)** Submission (0) CMS Warnings (0) Other Warnings (0)

Error message	Go To in XML
File failed import	

```
<!-- QDM Attribute: Relevant Period -->
<effectiveTime>
  <low nullFlavor="UNK"/>
  <high nullFlavor="UNK"/>
</effectiveTime>
```

## Software Updates

# Cypress 4.0.4 Patch Release

---

- Cypress 4.0.4 patch release is planned for Thursday, October 3<sup>rd</sup>
- Cypress 4.0.4 patch release will include updates to QRDA Import and Export:
  - Use an id's Root and Extension to determine uniqueness
  - “Low” values in a time range can use nullFlavor
  - Quantities can use decimal values
  - Exported Medication units should be valid UCUM values
- Cypress 4.0.4 patch release will enforce the "Guidance for Reason Template Placement When Specifying 'Not Done' with a Reason" published September 20, 2019.
  - <https://ecqi.healthit.gov/now-available-updated-2019-cms-qrda-iig-and-sample-file-hospital-quality-reporting-and-guidance-not-reporting-value-set-oids>



# Cypress Versions

Version	Dates	Measures Supported
V4.0.3	May 2, 2019	Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes record sample and other 4.0.2 bugs.
V4.0.4	October 3, 2019*	QRDA bug fixes
V5.0.0	July 25, 2019	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL.
V5.0.1	August 29, 2019	

Bundle Version	Dates	Features
2018.1.0	October 11, 2018	<b>Cypress v4 only</b> CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.
2019.0.1	July 25, 2019	<b>Cypress v5 only</b> CQL-based measures released in 2019 for the 2020 reporting year eCQM Value Sets as of 5/10/2019.

\*Planned Date

# MEASURE HIGHLIGHTING DEMO

# OPEN DISCUSSION

# Next Cypress Tech Talk

---

- Tuesday, October 8, 2019 at 1pm ET
- To join online, visit: <https://global.gotomeeting.com/join/529898157>
- To join via phone, dial: 1-646-749-3122
- Meeting Number: 529 898 157
- Meeting link, as well as a calendar event file, available at:
  - <https://www.healthit.gov/cypress/techtalks.html>

# Notes

---

- **Completed Webinars will be posted on the Cypress website on the Tech Talks tab**
  - <https://www.healthit.gov/cypress/techtalks.html>
- **Send questions and feedback to the Cypress Talk List at**
  - [project-cypress-talk@googlegroups.com](mailto:project-cypress-talk@googlegroups.com)
- **Report bugs and issues to the Cypress JIRA at**
  - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>